

What is Claimed is:

5 1. A backlight source device, comprising:

a transparent light guiding plate, a plurality of diffusing units being installed on either front surface or rear surface thereof, said diffusing units having respective light guiding surfaces with different areas which are extendedly and continuously arranged;

a diffusing piece on said transparent light guiding plate;

a reflecting piece below said transparent light guiding plate; and

a lateral light source.

10 2. The backlight source device as claimed in claim 1, wherein said diffusing unit has a convex shape.

3. The backlight source device as claimed in claim 1, wherein said diffusing unit has a concave shape.

15 4. The backlight source device as claimed in claim 1, wherein said diffusing units are arranged with different distances therebetween.

5. The backlight source device as claimed in claim 1, wherein said diffusing units are formed as two diffusing unit sets which are alternatively arranged on said transparent light guiding plate.

6. The backlight source device as claimed in claim 1, wherein the lateral cross section of said diffusing unit has a V shape.

7. The backlight source device as claimed in claim 1, wherein the lateral cross section of said diffusing unit has a U shape.

8. The backlight source device as claimed in claim 1, wherein the projecting area of said diffusing unit on said transparent light guiding plate is incremented with the distance increase to said lateral light source.

9. The backlight source device as claimed in claim 1, wherein said light guiding surfaces of said diffusing units have different elevations, respectively, which are incremented with the distances increase to said lateral light source.

10. The backlight source device as claimed in claim 1, wherein said light guiding surface is in parallel to said lateral light source.

11. The backlight source device as claimed in claim 1, wherein said light guiding surface has an angle with the lateral light source.

12. The backlight source device as claimed in claim 1, wherein the projecting areas of said light guiding surfaces increase with the distances increase to the middle of the light guiding plate.

13. The backlight source device as claimed in claim 1, wherein the thickness transparent light guiding plate decreases with the distance to said lateral light source.

14. The backlight source device as claimed in claim 1, wherein the two sides of said transparent light guiding plate has thickness wider than that in middle thereof.

15. The backlight source device as claimed in claim 1, wherein the lateral light source is a linear light source.

16. The backlight source device as claimed in claim 1, wherein the lateral light source is a plurality of light sources arranged in one row.